LIST OF CERTIFIED EQUIPMENT AND MATERIALS FOR USE IN UNDERGROUND MINES

by

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INTRODUCTION

In 1955, Energy, Mines and Resources Canada, under Order-in-Council R.C. 1958-313, initiated a Certification Service for electrical equipment for use in coal mines where explosive mixtures of methane and air may occur. Later, as the demand for certification of mining equipment and materials grew, this service was expanded to cover other aspects of safety and health in underground mining. Today this includes such diverse subjects as: flameproof electrical equipment, flameproof diesel powered equipment, diesel equipment for non-gaseous mines, fire-resistant conveyor belting, fire-resistant and static-free ventilating ducts, intrinsically safe electrical equipment, combustible gas detection systems, fire-resistant electrical cables and fire-resistant hydraulic fluids.

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LISTE DE MATÉRIEL ET DE MATÉRIAUX CERTIFIÉS POUR UTILISATION DANS LES MINES SOUTERRAINES

PAR

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INTRODUCTION

En 1955, Énergie, Mines et Ressources Canada a mis sur pied, en vertu du décret du conseil R.C. 1958-313, un service de certification du matériel électrique destiné à être utilisé dans les mines de charbon souterraines à cause des mélanges explosifs de méthane et d'air qui peuvent s'y trouver. Par la suite, pour satisfaire à la demande croissante de cetification de matériel et de matériaux d'exploitation de mine, on a élargi la gamme de services de certification de façon à couvrir d'autres aspects de la sécurité et de la santé dans les mines souterraines. Ces aspects touchent aujourd'hui le matériel électrique antidéflagrant, le matériel diesel antidéflagrant, le matériel diesel pour les mines non grisouteuses, les courroies de convoyeur ignifugées, les conduites d'aérage ignifugées et antistatiques, la sécurité intrinsèque du matériel électrique, les systèmes de détection de grisou, les fils et câbles électriques ignifugés et les liquides hydrauliques ininflammables.

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GENERAL

The following list represents a complete revision of earlier lists. All obsolete equipment and material from previous lists has been deleted to make it more meaningful. While every attempt has been made to have the list as complete and correct as possible, we recognize that there may be errors or omissions and cannot accept responsibility for hardship to any company whose product has been listed incorrectly or omitted.

When in doubt about any listing, the user should contact one of the authors of this document for verification by telephone, telex, or by writing to:

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As new products are being certified continuously, a list such as this cannot possibly be complete except on the date of issue. This material is computerized, however, so that an updated list or verification of any new certificates can be obtained by communicating with the authors.

GÉNÉRALITÉS

La liste qui suit constitue une révision complète des listes précédentes: tout le matériel et tous les matériaux désuets des essis précédents en ont été omis pour une pertinence accrue. Même si tout a été fait pour rendre la liste aussi complète et juste que possible, nous reconnaissons que des erreurs et des omissions ont pu se produire et nous ne pouvons accepter aucune responsabilité en ce qui a trait aux torts subis par une compagnie quelconque dont le produit a fait l'objet d'une erreur ou a été omis.

En cas de doute au sujet d'un produit quelconque, l'utilisateur doit entrer en contact avec l'un des auteurs du présent document par téléphone, télex ou par lettre, pour des éclaircissements:

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Corrections, additions et liste de distribution	- M.M. Inglis	- poste 149

Étant donné que nous certifions continuellement des produits nouveaux, une liste comme la présente ne peut être complète, sauf à la date de publication. Cependant, le contenu est mis sur ordinateur de sorte qu'une liste à jour de toute section peut être obtenue en tout temps. Il suffit d'en faire la demade à l'adresse ci-dessus. En outre, on peut communiquer avec les auteurs pour avoir des éclaircissements en ce qui a trait à toute nouvelle certification.

CONTENTS

		Page
INTRODUCTION		1
GENERAL		2
CATEGORY 1	SPECIAL CERTIFICATES	3
CATEGORY 2	FLAMEPROOF ELECTRICAL EQUIPMENT	8
CATEGORY 3	INTRINSICALLY SAFE ELECTRICAL EQUIPMENT	23
CATEGORY 4	FIRE-RESISTANT AND ANTI-STATIC CONVEYOR BELTING	32
CATEGORY 5	FLAMEPROOF DIESEL EQUIPMENT	37
CATEGORY 6	NON-FLAMEPROOF DIESEL EQUIPMENT	40
CATEGORY 7	FIRE-RESISTANT ELECTRICAL CABLES	41
CATEGORY 8	FIRE-RESISTANT AND ANTI-STATIC DUCTS AND PIPES	45
CATEGORY 9	COMBUSTIBLE GAS DETECTION EQUIPMENT	49
CATEGORY 10	FIRE-RESISTANT HYDRAULIC FLUIDS	51
CATEGORY 11	FLAMEPROOF AND INTRINSICALLY SAFE REPAIR FACILITIES	55
CATEGORY 12	PERMISSIBLE BLASTING DEVICES	56
CATEGORY 13	MINERS' CAP LAMPS (NON INTRINSICALLY SAFE)	57
APPENDIX	DELISTED CERTIFICATES	58

CATEGORY 1 - SPECIAL CERTIFICATES

Holder of Certificate	Description	Certificate No	Effective Date
Beaver Construction Group 1800 Hymus Boulevard Dorval, Quebec. H9P 2N6 Manufactured by: Flygt Sweden	B2400 420 Submersible Pump 600 V.A.C. 104 KW 60 Hz	433	Apr. 5, 1982
Beaver Underground Structures P.O. Box 151, Donkin, Nova Scotia. B0A 1G0	Flameproof Electrical 500 Gallon Water Heater Serial No. 1 Rated at 36 KW, 3 Phase, 600 V.A.C.	490	Mar. 16, 1983
Calgary Coal Research Laboratory 380, 4500 - 16th Ave. N.W. Calgary, Alberta T3B 0M6	Data Recorder Polycorder Model 516-32	577	Mar. 1, 1984
Canadian Industries Ltd. (C-I-L) P.O. Box 200, Station "A" Willowdale, Ontario. M2N 6H2 Manufactured by: Schaffler & Company Vienna, Austria	A Blasting machine Type 844T	492	June 14, 1983
Cape Breton Coal Research Center 210 George St. Sydney, N.S. B1B 1J3	Convergence Meter with digital readout Model COR-P/R	520	May 10, 1983
	Pocket clock/stopwatch/calculator Radio Shack Model EC-307	568	May 10, 1984
	Pocket Flow Calibrator Model 580 Mfd. by Kurz Instruments Inc.	583	Nov. 19, 1984

CATEGORY 1 - SPECIAL CERTIFICATES

Holder of Certificate	Description	Certificate No	Effective Date
Manufactured by: Heuer - Leonidas SA, Biel-Bienne, Switzerland	Heuer Microsplit 1000 Stopwatch (with serial numbers as listed on the associated schedule)	605	Apr. 22, 1985
United States Bureau of Mines Instrumentation Group E. 315 Montgomery Ave. Spokane, Washington 99207	Battery Powered, Ultrasonic Closure Rate Instrument (with serial numbers as listed in the the associated schedule)	592	Jan. 3, 1985
Cape Breton Development Corp. P.O. Box 2500 Sydney, N.S. (Machinoexport USSR)	Flameproof electrical roadheading machine - model PK-9	319	Feb. 13, 1978
	"Baldwin and Francis" flameproof switch - model CU 1100	349	Oct. 2, 1979
Manufactured by: Anixter Canada Inc. 2975 Victoria St. Lachine, Quebec. H8S 1Z4	Communication Cable DEVCO Technical Spec. 10-26 75 Ohm RG 11A/V With galvanized steel interlocking armour	555	Mar. 23, 1984
Manufactured by: Beckman Instruments Inc. Fullerton, California 92634	Intrinsically safe Beckman Multimeter Series HD100 (with serial numbers as listed in the associated schedule)	601	Mar. 19, 1985
Coal Mining Research Centre Mining Technology Division 2nd Fl., Sir John Franklin Bldg. 11111 - 87th Ave., Edmonton, Alta. T6G 0X9	A Nikon Nikonos IV-A and A Cosina Seamaster S.T. Underwater flash unit	545	Nov. 25, 1983

CATEGORY 1 - SPECIAL CERTIFICATES

Holder of Certificate	Description	Certificate No	Effective Date
Energy Mines and Resources Canada, Mining Research Laboratories, Bowpoint Plaza 380, 4500 16th Ave. N.W., Calgary, Alberta. T3B 0M6 Manufactured by: Energetics Science, Hawthorne, New York	Carbon Monoxide monitors, Model 5100, Serial Nos. 0192 and 0193	477	Dec. 7, 1982
Manufactured by: J-Tec Associates, Cedar Rapids, Iowa	Methane Monitoring Units, Intended for connection to Data Acquisition Systems - Type VM101B, serial Nos. C82.033, C82.028, and C82.027	476	Dec. 7, 1982
Manufactured by: J & S Sieger Ltd., Poole, Dorset, England	B.M. 1 Methane Monitoring System comprised of: Indicating unit serial No. 11463 Battery unit serial No. 32341 Recorder unit serial No. 21133	402	May 27, 1981
Energy Mines & Resources, CANMET/MRL 555 Booth Street Ottawa, Ontario. K1A 0G1	Baldwin Type N, SR-4, Portable Strain Indicator - Serial No. 90070 Switch box, Probe, and associated wiring	547	Dec. 2, 1983
Fairchild Exports Incorporated P.O. Box 1184 Beckley, West Virginia	Model DLE-1 "Load-A-Tram Hauler" Serial No. 4772025	407	Sept. 9, 1982
Ingersoll-Rand Company Mining Machinery Group 4201 Lee Highway, Bristol, Virginia 24201	"Versatrac" Battery Scoop Tractor Models 610, 611, 612, 613, 614 and 615 and models 601, 602, 603, 604 and 605 (with serial numbers as listed (in the associated schedule)	449-1	Apr. 1, 1985

CATEGORY 1 - SPECIAL CERTIFICATES

Holder of Certificate	Description	Certificate No	Effective Date
Lee-Norse Company, Pittsburgh, PA Canadian Agent: David Minerals Ltd., P.O. Box 330, Chetwynd, B.C. V0C 1J0	Flameproof Electrical Continuous Mining Machine - Model CM48H-3EE/60 Serial No. 4079	489	Jan. 27, 1983
NEI Mining Equipment 18 Queen Elizabeth Drive, Toronto, Ontario. M8Z 1M3 Manufactured by: Brook Motors Ltd.	Four (4) flameproof electric motors	340	June 19, 1979
Oak Supply Inc. P.O. Box 512, Markham, Ontario. L3P 3R1	Fire-resistant portable trailing cable - Type SHD-GC, rated 8 KV, 3/9	451	July 20, 1982
Oldham Batteries Ltd. Denton, Manchester, England Canadian Agent: Martin Equip. Ltd. P.O Box 1600 Sydney, N.S. B1P 6R8	Miner's cap lamp Model M, with battery Model T2 with built-in combustible gas detection instrument	572	July 19, 1984
Petro Canada P.O. Box B Kipp, Alberta. T0C 1C0 Manufactured by: Wallacetown Engineering Co. Ltd. Ayr, Scotland.	Flameproof gate end boxes type P70-150 serial No's Ft. 53866, 53871, 53907, 53909, 53910, 55345, 55400, 55401, 55402, 55403, 56915, 55197, and 55198	382	Dec. 11, 1980

CATEGORY 1 - SPECIAL CERTIFICATES

Holder of Certificate	Description	Certificate No	Effective Date
Petro Canada P.O. Box B Kipp, Alberta TOC 1C0 Manufactured by: Davis of Derby Derby, England	One lighting and signalling transformer, 650 V or less primary 115/125 V secondary Serial No. 1439-L	386	Dec. 11, 1980
Petro Canada P.O. Box B Kipp, Alberta TOL 1C0 Manufactured by: Brush Transformers Ltd. Loughborough, England	One (1) flameproof transformer 2300/565 V, 3 PH, 60 Hz, 300 KVA Serial No. 65540	368	Dec. 11, 1980

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
ETE Inc., (formerly A.E.C. Inc.) State College, Penn. U.S.A.	"Super Roc" Miner	335	Dec. 9, 1978
	"Alpine Miner", model P6A model P6A, 500 V or less 88.5 HP	228-1	May 8, 1980
Allen Bradley Canada Ltd. 135 Dundas Street Cambridge, Ontario. V1R 5X1	Pressure switches	298	Apr. 1, 1977
American Davidson Inc., 12 Davidson Road, Brampton, Ontario L6W 1X3	Mine Ventilation Fans Van Axial Flow Type "Kite" Series H38/100 - 38" Diameter For use with an EMR Certified 1800 RPM Flameproof Electric Motor, and Centrifugal Types, BAB 42 Airfoil Series With Van Inlet Control for use with An EMR Certified 1800 RPM Flameproof Electric Motor	526	Aug. 15, 1983
Anderson Strathclyde PLC 47 Broad Street, Glasgow G40 2QW Scotland, U.K.	Road Heading Machine, Model RH12	464	Dec. 7, 1982
	Plugs & Sockets, Cable Couplers, and Interrupted Pilot Adaptors Type A757D1, A757, and A757C1 (resp) Rated at 200A, 1100V, 3PH (max)	584	Nov. 19, 1984
	Test Plug Type A754D1 Rated to 1100 VMAX	585	Nov. 19, 1984
	Bolted Plug & Socket Type A728P Rated to 550 VAC max., 6 pins max.	586	Nov. 20, 1984
	Road Heading Machine Model RH22	588	Dec. 7, 1984

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Appleton Electrical Limited 750 Lawrence St. Cambridge, Ontario. N3H 2N1	Series XP1 Panelboards, 120 V, 240 V or 347 V - 2 or 3 Ph 100 or 225 AMPS - 12 and 24 Branch circuits	459	Nov. 2, 1982
	Flameproof lighting fixtures - Code master "C" AE series - rated 400 watts and less with mercury vapour metal halide and high pressure sodium lamps	390	Feb. 9, 1981
Babcock Huwood Electric Ltd. Shelley Road Newburn Industrial Estate, Newburn. Newcastle Upon Tyne NE 15 9RT England	Lighting transformer unit type K Rated at 1100 VAC input, 2.5 KVA	571	June 29, 1984
	Couplers type K200C plugs type KD, KDX, KG, KGX, KP and LG	381	Dec. 8, 1980
Baldwin Francis Ltd. Sheffield, England Canadian Agent: N.E.I. Mining Equipment Ltd. Sydney, N.S.	Electrical gate end boxes, types M11A, SCB1, and FT2X section switch type CB11, rated 1100 V or less 3 Ph, 60 Hz, 300 AMPS or less	373	Oct. 20, 1980
	Lighting Transformer, Type LU 1100 1100 V or less Input, 250 V or less Output, 5 KVA or less	435	Apr. 20, 1982
Beaver Construction Group Ltd. 1800 Hymus Boulevard, Dorval, Quebec. H9P 2N6	A Flameproof Alternator Assembly Rated at 12 V, D.C., 20 AMPS	521	Sept. 29, 1982

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
B.I.C.C. Components Ltd., Installation Materials Div., Astmoor Industrial Estate, Runcorn, Cheshire, England Submitted by: Tenaco Corporation Toronto, Ontario.	Type ESB 66/300 6.6 KV mining cable coupler and gland sets	434	Apr. 8, 1982
Submitted by: Phillips Cables Ltd., King Street West, Brockville, Ontario. K6V 5W4	Cable Glands for "Teck 90" cables Type BARR-CB Design Nos. 424CA-03 through -09 Trade sizes 3/4 to 3 in.	523	Aug. 12, 1983
British Jeffrey Diamond Thornes Moor Road Wakefield, England WF2 8P5	Motor, controls and intrinsically safe circuits	358	Feb. 6, 1980
	Mining Motor Type F35 and controls with intrinsically safe circuits 1000/1100 V, 60 Hz, 200 AMPS, 400 HP	358-1	Nov. 26, 1981
Brush Electrical Machines Ltd., P.O. Box 18 Falcon Works, Loughborough, Leicestershire England LE11 1HJ Canadian Agent: Hawker Siddeley Diesels and Electrics, 355 Wyecroft Road, Oakville, Ontario. L6K 2H2	Motors, Frame Size E200, E250, E280 Rated at 58, 75, & 120 KW (respectively) 1100 VAC, 60 Hz, 3Ph (Max), 2800 RPM	582	Nov. 14, 1984
	Motors Types E100-E200 incl. FQBM 1-49 and 1-60, FQBM 34-44, 34-60 and 34-76	369	July 23, 1980
	Transformers and switchgear types FP Mark II, III, IV and V rated 6600 V, 3 Ph 60 cycle 300, 500 750 and 1000 KVA or less	353	Nov. 2, 1979
	Type LBB Switch Disconnector up to 12 KV, 630 AMPS, 60 Hz	466	Oct. 4, 1982

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Canadian General Electric 107 Park Ave. N., Peterborough, Ontario. K9J 7B5	Electric motors Squirrel Cage Type K Frame sizes 182T, 184T, 213T, 215T, 254T, 256T, 284T, 286T, 324T, 326T, 364T, 365T, 404T, 405T, 444T, 447T, and 584 to 589 inclusive - 350 HP or less, 4160 V or less, 25 to 75 Hz 4500 RPM or less	421	Nov. 17, 1981
Cape Breton Development Corp. P.O. Box 2500, Sydney, Nova Scotia. B1P 6K9	Closed circuit television monitoring equipment for Lingan mine 500 ton bunker loadout	554	Feb. 23, 1984
	Closed Circuit Television System for Prince Mine No.2 Slope Haulage	569	March 18, 1984
	Type 1500 Bus Bar Adaptor for Gate End / Socket interface	591	Dec. 10, 1984
	Closed Circuit Television System	569-1	Mar. 18, 1985
Chromalox Canada Ltd. 210 Rexdale Blvd. Rexdale, Ontario. M9W 1R4	Range of Heaters, Model No. FPEP rated at 1000 watts max. 240 volts AC max. single Ph	602	Mar. 21, 1985
CMP Glands Ltd. Newcastle Upon Tyne St. Peters, England NE6 1BS Canadian Agent: Minelec Ltd. 2610 Dunwin Drive, Mississauga, Ontario. L5L 1J5	Bolted cable connectors type CC75/500	342	May 11, 1979

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Crouse Hinds Ltd. 1160 Birchmount Road Scarborough, Ontario M1P 2B9	EFS, EFD series switches	5FP	July 12, 1958
	Hazard Gard III mercury vapour fixtures single Ph 60 cycle model EVMCX82101-SX3, 100 W, 120 V model EVMCX82101-SX4, 100 W, 120 V model EVMCX82171-SX3, 175 W, 120 V model EVMCX82171-SX4, 175 W, 120 V model EVMCX82251-SX3, 250 W, 120 V model EVMCX82251-SX4, 250 W, 120 V	275FPL	May 30, 1975
	Type GUB junction boxes as specified in shedule (large variety)	516	June 28, 1983
	Flameproof Electrical Type FLS rated at 600 VAC max. 225 amps max.	598	Feb. 7, 1985
Deron Products P.O. Box 603 Goshen Road Morgantown, West Virginia 26505 (USA)	Trickle Duster Model ETD2 - 460 / 575 Rated at 2 HP, 575 VAC	556	Feb. 23, 1984
Dosco Overseas Engineering Ltd. British Field, Allerton Road Tuxford, England Canadian Agent: Wajax Industries Ltd. 1101 Victoria Ave. Cranbrook, B.C. V1C 3Y6	"Dosco" Mark II A Road Header	356	Jan. 28, 1980
	Mk. 2B Roadheader Serial No. 25, 31 & 32	580	Nov. 2, 1984

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Eickhoff Mfg. Ltd. P.O. Box 100629 Hunsoeidtstrasse 176 4630 Bochum / West Germany Canadian Agent: Atlas Copco Canada Ltd. P.O. Box 745 Pointe Claire - Dorval, Que. H9R 4S8	Model ESA - 60L Road cutting machine	570	June 19, 1984
Agent: Eickhoff American Corp. 200 Park West Drive P.O. Box 2000 Pittsburgh, Pennsylvania 15230 (USA)	Longwall Shearer Model EDW - 150 - 2L Rated at 975 VAC, 60 Hz, 300 KW (nominal)	575	Sept. 18, 1984
E.I.M. Electric Co. 1393 1 Aza Vohikawalata Inokuma, Fukuoka 807 Japan Canadian Agent: Wajax Industries Ltd. 3280 Wharton Way Mississauga, Ontario. L4X 2C5	Submersible drainage pump model El-52	299	Apr. 1, 1977
	Submersible pumps - Models EL-52X EH-52X, EH-85X, EH-102NX, EL-104X, H-154X, H-200FX and H-200FX-2	299-1	Aug. 3, 1982
Elram International International Actuators Ltd. Leeds, England Canadian Agent: Mondel Engineering Ltd. Toronto, Ontario.	Electro-Hydraulic Thrusters Types T3/1/A, T1/A and T2/A	425	Jan. 7, 1982

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Engart Fans Ltd. Division of Hirwaun Industrial Estate, Aberdare Mid-Glamorgan CF44 9YA U.K. Canadian Agent: Peacock Inc. 1158 Aerowood Drive Mississauga, Ontario. L4W 1Y5	Type 67 mine fan	326	Oct. 16, 1978
	Type B70F mine fan	326-1	July 9, 1981
	30" Bifurcated fan	411	June 29, 1981
	42" B60SCV/50HR Bifurcated fan	411-1	Jan. 8, 1982
	Bifurcated Mine Fan Type 24A 15 - SCV	537	Oct. 11, 1983
	A range of driven MRDE dust extractors Types "MINI", 24, 30, 67, and 82	538	Oct. 11, 1983
English Drilling Co. Ltd. Lindley Moor Rd., Huddersfield, Yorkshire England HD3 3RW	Underground drilling machine	316	Nov. 25, 1977
	Hydraulic Power Pack rated at 30 HP and 1200 RPM	405	June 10, 1981
Etatech Industries Ltd. P.O. Box 370 Brantford, Ont. N3T 5N3	Range of Electric Motors 0.255 HP to 250 HP	566	May 3,1984
Flygt Pumps Ltd. Colwick, Nottingham, England NG4 2AN Canadian Agent: Flygt Canada Ltd. 300 Labrosse Ave Pointe Claire, Quebec H9R 4V5	Submersible Pump Model B-2075 5.5 HP, 3400 RPM, 575 V, 3 Ph	416	Oct. 26, 1982
	Type BS2041.360.010 Submersible pump Rated at 575V, 3 PH, 1.7 KW	576	Sept. 24, 1984

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Flygt Sweden Canadian Agent: Flygt Canada 300 Labrosse Ave., Pointe Claire, Quebec H9R 4V5	Submersible pump Type B2400 420 - Rated at 600 V.A.C. 104 KW., 60 Hz	484	Jan. 18, 1983
	Submersible Electric Pump Type B-2201.430 - Rated at 600 V.A.C. 47.5 KW., 60 Hz	485	Jan. 18, 1983
Flygt Canada Ltd., 300 Labrosse Ave., Point Claire, Quebec H9R 4V5	Submersible Pumps - Type DS 3080 Rated at 1100 V AC, Maximum	504	Apr. 8, 1983
GEC High Voltage Switchgear Ltd. P.O. Box 132, Manchester, England N60 1AF	"MIVAC" switchgear with vacuum circuit breaker 6.6 KV	305	July 19, 1977
	"MIVAC" transformer mounted circuit breaker Type 7.2T2 and MIVAC switchboard circuit breaker type 7.2Sw - 150 MVA, 6.6 KV, 3 Ph	305-1	June 25, 1982
General Energy Development Corp. 661 Highland Ave., Needham Heights, Mass. 02194	Electronic photoflash unit, with intrinsically safe synchro connection Model GBS 5600	560	Mar. 12, 1984
Hawker Siddeley Electric Motors Ltd., Perseverance House, Tong Street Bradford BD4 9NQ England	A range of electric motors EEMAC design "B" - frame sizes from E143T to 326T, 0.5 HP to 50 HP voltage to 1100 VAC, 1, 2, or 3 Ph	549	Dec. 28, 1983

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Hawker Siddeley Electric Motors (Canada) Inc., 264 Attwell Drive Rexdale, Ontario M9W 5B5 and Brook Crompton Parkinson Motors Perseverance House, Tong Street, Bradford BD4 9NQ England Manufactured by: Brook Motors, Huddersfield, England and Crompton Parkinson Motors Ltd., Guiseley, Leeds, England	EEMAC Design "B" Frame sizes From E143T to 445T 0.5 HP to 150 HP Voltage to 1100 VAC, 1, 2 or 3 Ph.	549-1	Feb. 11, 1985
Ingersoll-Rand Co., Mining Machinery Group 4201 Lee Highway, Bristol, Virginia 24201 (formerly Lee Norse Company)	Roof bolter model TD1-36-1-10E/10EE	295	Jan. 28, 1977
	Roof Bolter model TD2-43-SE/SEE	295-1	Sept. 27, 1977
	Electric roof bolter model TD1-43-6E/EEE rated 600 V or less, 3 Ph 60 Hz 40 HP	295-2	Dec. 8, 1980
	Continuous mining machine model LN600-2V	450	Jan. 20, 1983
J.H. Fletcher & Co. P.O. Box 2143 Huntington, West Virginia 25722	Roof Drilling Machine Model DM-13/15, C-2/10	448	July 27, 1982

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
John Davis & Son (Derby) Ltd. Derby, England Canadian Agent: Minelec Ltd., 2610 Dunwin Drive, Mississauga, Ontario. L5L 1J5	Monitoring System FMS 1 Type 25000	509	May 16, 1983
	A voltage and power recording system Type MRD 57400	550	Jan. 6, 1984
Joy Manufacturing Company Canada Ltd. 118 Midland St. Winnipeg, Manitoba. R3E 2Y6	Series 100 fan assemblies sizes 36-26-1750 RPM	260-2	May 27, 1977
	Series 1000 Axivane fan sizes 18-14,	337	June 29, 1977
	Flameproof electric mine fan Axivane model 21 3/16 x 17 1/8	337-1	July 8, 1980
Joy Manufacturing Company 325 Buffalo Street Franklin, PA. 16323	CD-3342	203-S	July 19, 1971
	Transformer motor CD-4468	155-A	Nov. 3, 1969
	Safety circuit centre	197FP	May 25, 1971
	Controller 546797, SKC-4201	198-A	May 26, 1971
	Cable reel assembly 575269-D	302	May 27, 1977
	Pull cord switch 569028-1	324	May 3, 1978
	Continuous coal mining machines models 12CM10 and 12CM11 1100 V or less 60 cycle, 3 Ph 50 HP or less	367	July 15, 1980
	Shuttle car model 10SC22-	333	Oct. 16, 1978

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Keith Blackman Ltd., Mill Mead Road, Tottenham London, England N17 9ND Canadian Agent: Woods Fans Ltd., 5112 Timberlea Blvd., Mississauga, Ontario L4W 2S5	Mine Fans Types ILR610, ILR760, ILR900 Rated at 1100 V., Maximum	451	Mar. 21, 1983
Long Airdox Company State Route 611 P.O. Box 1231 Pulaski, Virginia 24301	Coal Haulage system	351	Nov. 10, 1979
	Feeder - Breakers Types SFBH-40 and FMFBH-56A 1100 V	469	Oct. 28, 1982
Lovat Tunnel Eqpt. 441 Carlingview Drive Rexdale, Ont. M9W 5G7	7.6 meter diameter Tunnel Boring Machine (this is a one-of-a-kind machine) has EMR plate	515	June 15, 1983
Mexco International Ltd. Sutton-In-Ashfield,England Canadian Agent: Hawker Siddeley Diesels and Electrics Oakville, Ontario.	Type A2 and A3 headlights and "Ashfield" Generator Type L Vehicle lighting system	443	June 10, 1982
Milltronics Ltd., 730 The Kingsway Peterborough, Ontario K9J 6W6	Motion Failure Alarm Type 4	418	Mar. 14, 1983
	Ultrasonic Level Transducers Model LR21FM and LR13FM	581	Nov. 9, 1984

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Mine Safety Appliance Co. Pittsburgh, PA Canadian Agent: MSA Canada Ltd. 148 Norfinch Drive Downsview, Ontario.	Rock dusters "trickle duster" and "Bantam 400"	345	Jan. 28, 1980
Minelec Ltd. 2610 Dunwin Drive, Mississauga, Ontario. L5L 1J5	Monitoring System FMS 1 Type 25000	509	May 16, 1983
Manufactured by: John Davis & Son (Derby) Limited Derby, England	Cable Coupler & Adaptors Type WE 76/300 CF, WE 76/300	577	Oct. 11, 1984
Mitsui Miike Machinery Co. Ltd. Mitsui Building, Nihombashi-Muromachi, Chuko-Ku Tokyo, Japan Canadian Agent: Mitsui and Co. Canada Ltd. 2903 Bentael Centre, 595 Burrard Street, Vancouver, B.C. V7X 1E6	Road header type MRH-S50-14M and type MFL-XX-14M face loader	301	May 19, 1977
	Type MRH-S125-23, road heading machine rated at 1100 V, 60 Hz. maximum	501	Mar. 21, 1983
	Induction Motor - type MCE 471 rated at 1100 V, 3 Ph. 50/60 Hz. 130-240 A (AC)	539	Oct. 12, 1983
Submitted by: Long Airdox Company Suite 320, Robinson Plaza III Pittsburgh, PA. 15205	Remote control chamber type MRB 5265-X1	540	Oct. 13, 1983
Morley Electrical Engineering Co. Ltd. (The) Stanningley, Pudsey, Yorkshire, England LS28 6QA	Electric Motors - Types BM, CM, DM, EM PBM, PCM, PDM, E160, E180, and E225	499	Mar. 3, 1983

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
NEI Peebles Ltd. Broxburn, Scotland EH52 5AP	Transformers types FPA500/2A Mark II, FPA 750/2A FPA 1000/1A	315	Nov. 9, 1977
	Transformer type FAP 500/4	315-1	June 8, 1979
NEI Mining Equipment Ltd. Reyrolle Belmos Industrial Estate Blantyre, Glasgow, Scotland G72 0UU	Vacuum Contactor Starters Types HFVG, HF2VG and HFGT Rated at 2400 HP or less, 3 Ph 50-60 Hz., 7.2 KV	310-1	Apr. 13, 1983
	Motor starters, Types KFG, KF2G KFVG, KF2VG and KFGT, up to 130A, up to 900 HP, up to 3.3. KV	311	Oct. 7, 1977
Ocenco Inc. P.O. Box 8 Industrial Park Blairsville, PA. 15717	Headlamp model HE-100X	336	June 21, 1979
Parsons Peebles Ltd. Edinburgh, Scotland EH5 2XT	Motors 300 HP and less	334	Oct. 19, 1978
Sykes Pumps, London, England Canadian Agent: Linden-Alimak Ltd., Mississauga, Ontario.	"Sykes Velovac" Pumpset Model VC3E - 50 HP, 575 V, 3 Ph, 60 Hz.	436	June 24, 1982
Tri-Metal Fabricators Ltd. 3751 Napier St. Burnaby, B.C. V5C 3E4	Range of Fans 10" to 60" diameter (less motor)	587	Nov. 26, 1984

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Victor Products PLC P.O. Box Wallsend Tyne and Wear England NE28 6PP	"Minotaur" Hydraulic Drill	419	Mar. 18, 1982
Voest-Alpine AG Zeltweg, Austria Agent: Voest-Alpine International Corp. 60 East 42nd Street, New York, N.Y. 101165	Fluorescent luminaire type 20L	308	Sept. 12, 1977
	"Alpine Miner" and tunnelling machine model AM50	348	Oct. 18, 1979
	"Alpine Miner" Model F6A tunnelling machine, rated at 1000V or less, 3 Ph, 60 Hz, 89 HP	348-1	Oct. 18, 1979
	"Alpine Miner" model AM1000 11000 V, 3 Ph, 60 Hz.	415	Oct. 23, 1981
	"Alpine Miner" type AM75 rated up to 1100 V, 60 Hz.	528	Aug. 18, 1983
Wallacetown Engineering Co. Ltd. Heathfield Road Ayr, Scotland KA8 95R Canadian Agent: Minelec Ltd., 2610 Dunwin Drive Mississauga, Ontario. L8N 3K2	Conveyor control - type A69, 1100 V 3 Ph, 50/60 Hz. 150 AMP or less	463	Sept. 20, 1982
	Remote control unit - types A56, A56S and A56K - up to 650 V, 2 AMP with Pilot circuit suitable for use with associated intrinsically safe circuit	465	Sept. 23, 1982

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Wallacetown Engineering Co. Ltd. Heathfield Road Ayr, Scotland KA8 95R Canadian Agent: Minelec Ltd., 2610 Dunwin Drive Mississauga, Ontario. L8N 3K2	Gate end box Type P59 Reversing Starter Type P59C Rated to 600 VAC, 60 Hz, 3 Ph	578	Oct. 29, 1984
	Gate end box Type P70/150 with Pilot circuit suitable for use Rated to 600 VAC, 60 Hz, 3 Ph	579	Oct. 29, 1984
Westinghouse Canada Inc., Box 510 Hamilton, Ontario. L8N 3K2	A series 3 Ph induction motors frames 182 to 449 maximum 600 V, 60 Hz	147FP	Feb. 21, 1969
	Type HSB induction motor 75 HP SPL miner motor frame 405TDZ	147-25	Nov. 19, 1976
	Alterations to motor frames 447T and 447TY 140 HP SPL miner motor	147-26	Feb. 1, 1977
	Alteration to type HSB frame 182-447T motor to include trailing cable entry gland and junction box	147-27	Nov. 28, 1977
	Type HSB motors - alterations frame 182 to H47T supply entry Victor plug and socket	147-28	Nov. 28, 1977
	Motors type HSB "air over" fan type	147-31	Mar. 19, 1979
	Electric motor frames 684, 686 and 688 rated 6900 V, 3 Ph 60 cycle	359	June 3, 1980
W.R. Stamler Corp. Millersburg, Kentucky 40348	Feeder - Breaker - Model BF 14	458	July 13, 1983

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
AGA Geotronics AB, Lidingo, Sweden Canadian Agent: AGA Geodimeter of Canada Ltd. 41 Horner Ave., Unit 5 Toronto, Ontario. M8Z 4X4	"GEODIMETERS" Models 116, 120, and 122	417	Oct. 26, 1981
A.T.S. Electro-Lube Ltd. 11 - 7550 River Road, Tilbury Industrial Park, Delta, B.C. V4G 1C8	Electrolube Automatic Lubrication Dispenser	600	Feb. 27, 1985
Babcock Huwood Electric Ltd. Shelley Road Newburn Industrial Estate, Newburn, Newcastle Upon Tyne NE15 9RT U.K. Canadian Agent: Foulis Engineering Sales Ltd. P.O. Box 998 Sydney, N.S. B1P 6K9	Over-Temperature Monitor Type D1601	488	Jan. 24, 1983
	Display Sign Type DIL	573	July 24, 1984
Cape Breton Development Corp. P.O. Box 2500 Sydney, N.S. B1P 6K9	Type 1371, 24 V D.C. Power Supply	420	Nov. 17, 1981
	Wallface Power Monitoring Display	574	Aug. 31, 1984
Casella London Limited Regent House, Britannia Walk London N1 7ND	Dust Sampler - type 113A, portable battery operated	352	Nov. 1, 1979

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
C-I-L Inc. P.O. Box 200 Station "A" North York, Ontario. M2N 6H2	Battery powered self contained Circuit Tester	597	Feb. 6, 1985
Communication and Control Engineering Co. Ltd. Calverton, England	Control desk model CP1	355	Jan. 25, 1980
Conspec Controls Inc., 44 Martin Ross Ave., Downsview, Ontario. M3J 2K8	Mine Monitoring system "Senturion 200"	474	Nov. 30, 1982
Derby Automation Consultants Ltd. Burton-On-Trent, U.K. Canadian Agent: Tenace Corp., 897 Kipling Ave., Toronto, Ontario. M8Z 5H3	Radio Signalling System, Type RSS	481	Dec. 21, 1982
	Telephone System, Types ST/1 and ST/1/IU MK II, and associated safe area equipment	372-3	July 30, 1980
Dragerwerk, 24 Lubeck St. P.O. Box 1339 West Germany Canadian Agent: Safety Supply Canada Ltd., 797 Lorne Street, Sudbury, Ontario. P3C 4R5	Sound powered mine rescue communication system	564	March 26, 1984
E.I. Du Pont De Nemours & Co., P.O. Box 10 Kennett Square, PA 19348	Portable Air Sampling Pump Type P2500A	497	Feb. 9, 1983

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Energetics Science Co. Ltd. A division of Becton Dickinson and Company Hawthorne, New York 10532	Carbon Monoxide Sensing Unit Model 5001-Dg	500	Mar. 18, 1983
General Energy Development Corp. 661 Highland Ave. Needham Heights, Mass. 02194 USA	Electronic Photoflash Unit Model GBS5600	560	March 12, 1984
GLI Corporation P.O. Box 245 Woodinville, Washington 98072	Radio Remote Control System Model 651	530	Aug. 22, 1983
Golder Associates 3151 Wharton Way Mississauga, Ontario. L4X 2B6	Strain Measuring Equipment XRT PVC Sheathed Aluminum installation rods, 5 ft. lengths Installation trolley and light powered by 9V battery, NEDA type 1604 Continuity Tester, - One AA battery, 1.5 V series connected with one miniature lamp P350 Vishay strain indicator P350 SB1 Vishay switch and balance unit (10 channel)	506	June 1, 1983
Hawker Siddeley Dynamics Ltd. Hatfield, England Canadian Agent: Hawker Siddeley Diesels and Electrics Ltd. 355 Wyecroft Rd., Oakville, Ontario. L6K 2H2	"Dynalink MK II" data transmission system	370	July 29, 1980
	Pulsed Radar System Type PRS 100	478	Dec. 8, 1982

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Hughes Aircraft Co. Industrial Products Division 6855 Camino Road Carlsbad, California 92008	"Probeye" infrared receiver - model 649	318	Dec. 28, 1977
Irad Gage Ltd. Div. of Creare Products Inc., Etna Rd. Lebanon, New Hampshire 03766 Canadian Agent: Solinst Canada Ltd. 2340 Industrial St. Burlington, Ont. L7P 1A5	Vibrating Wire Strain Gauge and Readout Type MB-6LU	524	Aug. 12, 1983
	Sonic Probe and Readout Type MB-7	525	Aug. 12, 1983
J. & S. Sieger Ltd. Nuffield Estate Poole, Dorset England BH17 792 Canadian Agent: Minelec Ltd. 2610 Dunwin Drive Mississauga, Ontario. L5L 1J5	Velocity monitor - model BA2 battery power supplies BAT-1 and BAT-2	380	Dec. 8, 1980
J-Tec Associates Inc. 317 - 7th Ave. S.E., Cedar Rapids, Iowa 52401	Air flow sensor - model VA-216 with certified power supply and monitor	374	Dec. 3, 1980
	Monitor - model DCU-100 with intrinsically safe input and output circuits	378	Dec. 3, 1980
	Power supply - model PS-201	379	Dec. 3, 1980

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
J-Tec Associates Inc. 317 - 7th Ave. S.E., Cedar Rapids, Iowa 52401	Air flow sensor - type VA-216B for connection to an intrinsically safe monitoring system and power supply	396	Mar. 31, 1981
	VP 100 Handheld Anemometer	409	June 25, 1981
John Davis and Son Ltd. P.O. Box 38 Derby, England DE 24AB Canadian Agent: Minelec Ltd. 2610 Dunwin Drive, Mississauga, Ontario. L5L 1J5	Conveyor control, communication system with "Bluebell" and "Underdome" signalling bells	375	Dec. 3, 1980
	Voltage & Power Recording System Type MRD 57400	550	Jan. 6, 1984
KDG Instruments Ltd., Fleming Way,Crawley, West Sussex, England RH10 2QE Canadian Agent: Bestobell Canada Ltd., 245 Norseman St., Toronto, Ontario. M8Z 2R5	Electronic Level Monitoring System Comprised of series 8000 transmitter and series 8200 indicator	562	Mar. 27, 1984
	Electronic Pressure Transmitter Model 6320	563	Mar. 27, 1984
Levitt-Safety Ltd. 33 Laird Drive, Toronto, Ontario. M4G 3S9	"Northern Light" Miner's Cap Lamp	593	Jan. 14, 1985

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Measurement Technology Ltd., Luton, Bedforshire England LU1 3JJ Canadian Agent: Westhead Associates 282 Belfield Road Rexdale, Ontario. M9W 1H5	Barriers and Interface Units	531	Aug. 29, 1983
Milltronics Ltd. 730 The Kingsway Peterborough, Ontario K9J 6W6	Contact Sensor model ISCS-1	414	Sept. 8, 1981
	Motion failure alarm, type 4	418	Oct. 26, 1981
Mine Safety Appliances Co. 201 North Braddock Ave. Pittsburgh, PA.	Powered respirators Part Nos. 205689, 204688 and 463355	328	July 12, 1978
Canadian Agent: MSA Canada Ltd. 148 Norfinch Drive Downsview, Ontario M3N 1X8	Pager model III and 463355	346	Aug. 27, 1979
	Portable Battery Powered Pumps Models G and S	471	Nov. 10, 1982
	MSA Multiphone Mine Communication System	494	Jan. 18, 1983
	Fixt-Flo Pump, Model 1	498	Feb. 10, 1983
National Mine Service, Co., Industrial Safety Division Oakdale, PA 15071 Canadian Agent: Safety Supply Canada, 214 King St. East, Toronto, Ontario M5A 1J8	Portable Sampling Pump - Type SP 200	495	Feb. 7, 1983
	Portable Oxygen Monitor - Type OX230	496	Feb. 7, 1983

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
MEI Mining Equipment Ltd. Baldwin & Francis, Eyre Street, Sheffield, S1 3GP England U.K.	Fibre Optic Interface Barrier Type NB6	534	Sept. 29, 1983
	Monitoring and Control System Type NCM1	535	Oct. 7, 1983
Ominidata International P.O. Box 3489 Logan, Utah 84321 Calgary Coal Research Laboratory 380, 4500 - 16 Ave., N.W., Calgary, Alberta T3B 0M6	Data recording instrument Polycorder Model 516-32 serial No. 0659	557	Mar. 1, 1984
Precision International Inc. Canadian Agent: Wild Leitz Canada Ltd. 513 McNicoll Ave.	Electronic distance measuring equipment, "Citation" models CI 410 and CI 450	470	Oct. 28, 1982
Peltor Ltd. P.O. Box 2341, Malmstensg 19 S-33100 Varnamo, Sweden Canadian Agent: Norhammer Tools Ltd. Box 2042 Gravenhurst, Ont. P0C 1G0	Headset Intercom System	565	Apr. 19, 1984
Racal Airstream Inc. Rockville, Maryland Canadian Agent: Safety Supply Canada Toronto, Ontario.	"Racal Airstream" miner's helmet Model AH-21 with AS3-15 battery pack	427	Jan. 28, 1982

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Rapco Electronics Ltd., Joule Road Basingstoke, Hants, England RG21 2XF Canadian Agent: Minelec Ltd., 2610 Dunwin Drive Mississauga, Ontario. L5L 1J5	Portable Chart Recording System Type 77100, employing Type 77110 Model PCR 1 chart recorder	551	Jan. 23, 1984
Rootest Ltd. 665 Pine St. Lambert (Montreal), Que. J4P 2P4	Covergence Meter Model COR-P	520-1	Oct. 9, 1984
Sensidyne, Inc., P.O. Box 2150, Largo, Florida 34294	Air sampline pumps, Model BDX-44 and BDX-60, portable, battery powered	544	Nov. 23, 1983
	Air Sampling pumps Models BDX-55, BDX-56	544-1	June 6, 1984
Solinst Canada Ltd. 2440 Industrial St., Burlington, Ontario. L7P 1A5 Manufactured by: Irad Gage Inc., Lebanon, New Hampshire, U.S.A.	Vibrating wire strain gauge and readout Type MB-6LU	524	Aug. 12, 1983
Transmitton Ltd. Ashby-de-la-Zouch Leicestershire, England LEC 54G	Data transmission system type 101	317	Dec. 13, 1977
	Transmission system type TM-2000	317-1	June 29, 1979

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Trolex Products Ltd. Newby Road, Hazel Grove Stockport, Cheshire SK75D6 England U.K.	Monitoring equipment - thermostats type TC10, TC10P and TX280 - type TX140 air flow switch - smoke detector type P3270 - power supply type P3681	371	Dec. 1, 1980
	Dead Line Indicator - Type P3650	511	May 30, 1983
	Temperature Monitoring System Type TX20	512	May 30, 1983
Wild Heerbrugg Ltd. Switzerland Canadian Agent: Wild Leitz Canada Ltd. 513 McNicoll Ave. Willowdale, Ontario. M2H 2C9	Electronic distance measuring equipment - "Distomat" type D14, D14L including keyboard and battery packs	456	Oct. 29, 1982

CATEGORY 4 - FIRE-RESISTANT AND ANTI-STATIC® CONVEYOR BELTING

Holder of Certificate	Description	Certificate No	Effective Date
Bando Chemical Industries Ltd. No. 2 Nagaoka Bldg. 8-5, Hatchobori, 2-Chome, Chuo-Ku Tokyo 104, Japan Canadian Agent: Mitsui & Co. (Canada) Ltd. 1600 Aquitaine Tower 540 - 5th Ave. S.W. Calgary, Alberta T2P 0M2	Type ST-2000	211-2	May 9, 1984
	Bando Type 300 (4 ply)	81FR	Dec. 6, 1966
	Bando Type 300 (5 ply)	117S	Apr. 18, 1968
	Bando Type 100 steed cord	142FR	Jan. 16, 1969
	Bando belt No. 100	151FR	July 18, 1969
	Bando type No. 300	193S	May 19, 1971
	Bando No. 300 steel cord	211FR	Jan. 19, 1972
	Type FR-100	142-1	Aug. 15, 1977
Bridgestone Tire Co. Ltd. 10-1, Kyobashi 1-chome, Chuo-ku, Toyko, 104, Japan	Type FR "L"	215FR	Apr. 26, 1972
	Type FR "K"	216FR	Apr. 27, 1972
BTR Belting Ltd. P.O. Box 3 Centurion Way Farington, Leyland Preston, Lancashire England PR5 2RE	"BTR flame resistant" (5 ply)	229FR	Dec. 7, 1972
	"BTR flame resistant" (4 ply)	230FR	Dec. 7, 1972
	"BTR flame resistant" (4 ply)	248FR	Aug. 13, 1973
	"BTR silvercord" (steel cord)	277S	Sept. 30, 1975
	"Silverply" 540/3	323	May 4, 1978

CATEGORY 4 - FIRE-RESISTANT AND ANTI-STATIC* CONVEYOR BELTING

Holder of Certificate	Description	Certificate No	Effective Date
Cable Belt Ltd. Camberley Surrey, England	Inline shoebelt, drawing No. 3/7/25A	291	Oct. 6, 1976
	Offset shoebelt, drawing No. 3/7/24E	291-1	Feb. 14, 1977
Dunlop Ltd. P.O. Box 7 Liverpool, England L24 1UY Canadian Agent: Dunlop Industries Ltd. 11 Curity Ave. Toronto, Ontario. M4B 1X5	"Starflex" 315 FRAS and 525 FRAS	487	Apr. 13, 1983
Dunlop Industrial Ltd. cct Division Tournai, Belgium	"Vinyplast" 630S* types 400S, 500S, 900S, 1000S, 1250S, 1600S, 1750S, and 2000S	341	May 8, 1979
Fenner & Co. Ltd. (J.H.) Hull, England Canadian Agent: Wajax Industries Ltd. 3280 Wharton Way Mississauga, Ontario. L4X 2C5	"Fenplast" FRSR 2240 to 12,000 inc.	292	Dec. 1, 1976
Goodyear Canada Ltd. 45 Raynes Ave. Bowmanville, Ontario. L1C 1J3	A range of Goodyear "Plylon" 315, 420, 525, 630 - 3 to 6 ply	252-1	Apr. 9, 1980
	A range of Goodyear steel cable reinforced	253FR	Sept. 28, 1973
	"Plylon II"* 220, 330, 400, 440 600, 800 and 1000	439	June 9, 1982

CATEGORY 4 - FIRE-RESISTANT AND ANTI-STATIC* CONVEYOR BELTING

Holder of Certificate	Description	Certificate No	Effective Date
Greengate Industrial Polymers Ltd. Ordsall Lane Salford M5-4TD England	Type 4/4, 5/4 and 800/4	304	June 23, 1977
Mitsubishi Canada Ltd. Suite 2181, Commerce Court West, P.O. Box 17, Commerce Court Postal Station, Toronto, Ontario. M5L 1A5 Manufactured by: Mitsuboshi Belting Ltd., 4-Chome, Hamazoe-Dori, Negata-Ku, Kobe, Japan	A range of types ST500 to ST5000 and A range of types VN-100 to VN200	599	Feb. 11, 1985
Rost and Co. Balatroswerke, Postfach 901168 2100 Hamburg 90-Harburg Germany	"Balatros Duplex" type PVC S 630/2	300	Apr. 25, 1977
Scandura Inc., P.O. Box 949 1801 North Tryon St., Charlotte, North Carolina 28230 Canadian Agent: Scandura Canada Ltd. 745 Clark Dr., Vancouver, B.C. V5L 3J3	"Gold Line II" series Type 3500 HC	344	Oct. 26, 1979
	Styles GL-6000 and GL-8000	344-1	July 25, 1980
	"Gold Line II" styles GL 4000 and GL 5000	344-2	Dec. 5, 1980
	Dualine One Star, Dualine Three Star and Dualine Four Star	594	Jan. 17, 1985

CATEGORY 4 - FIRE-RESISTANT AND ANTI-STATIC* CONVEYOR BELTING

Holder of Certificate	Description	Certificate No	Effective Date
Scandura Limited Cleckheaton, West Yorkshire England BD19 3UJ Canadian Agent: Scandura Canada Ltd., 745 Clark Dr. Vancouver, B.C. V5L 3J3	"Gold Line" FRAS 15,000	343-4	June 14, 1983
	"Gold Line" FRASN 4000,5000 and 6500	343-5	Aug. 26, 1983
	"Gold Line" FRAS 6500	343-6	Aug. 26, 1983
	"Iceline" FRAS 12,000	510	June 14, 1983
	"Gold Line" types FRAS 4600, FRAS 5000, FRAS 6000 FRAS 8000, FRAS 10,000, FRAS 12,000 and FRASN 8,000, FRASN 10,000 and FRASN 12,000	343-3	Oct. 9, 1981
TBA Industrial Products Belting Division Wigan, Lancashire P.O. Box 77 England WHZ 4QX	"Loadstar" solid woven P.V.C. type 5*	403	June 2, 1981
Unilok, the Belting Division of Georgia Duck and Cordage Mill Scottdale, Georgia 30079	"Poly-Vinylok" styles - PVK 350, PVK 470, PVK 500 PVK 600, PVK 610, and PVK 800	222-4	Jan. 18, 1980
	PVK 1200 AS	222-5	June 6, 1980
	PVK 1000	222-6	July 23, 1981
	PVK 800S	222-7	Feb. 9, 1981
	PVK 350 AS, PVK 470 AS, and PVK 500 AS	222-8	Feb. 9, 1981
	PV 800 AS	222-9	July 21, 1982
	PVK 5000	222-10	Nov. 3, 1983

CATEGORY 4 - FIRE-RESISTANT AND ANTI-STATIC* CONVEYOR BELTING

Holder of Certificate	Description	Certificate No	Effective Date
Uniroyal Ltd., P.O. Box 2230, Bracebridge, Ontario. P0B 1C0	"Matchless Fire Resistant" Types USFLEX 115/2 AS, 140/2 AS, 175/2 AS	502	Apr. 13, 1983
	"Matchless Fire Resistant" types USFLEX 30/1 AS, 40/1 AS, 55/1 AS, 75/1 AS	502-1	Aug. 17, 1983
	"Matchless Fire Resistant" Types USFLEX 30/1 AS, 40/1 AS, 55/1 AS, 75/1 AS	505	Apr. 13, 1983
	types USFLEX 30/1 AS, 40/1, AS, 55/1 AS, 75/1 AS, 115/2 AS, 140/2 AS, 175/2 AS and 220/2 AS		
	"Matchless Fire Resistant" styles "RAYALON" 26/2 AS, 39/3 AS, 36/2 AS, 54/3 AS, 72/4 AS 90/5 AS, 70/2 AS, 105/3 AS, 140/4 AS, 175/5 AS, and 210/6 AS	505-2	July 26, 1983
Yokohama Rubber Co. Ltd. P.O. Box 46 S. Liba Tokyo, Japan	"Yokohama" fire safety steel cord	137FR	Oct. 2, 1968
	Yokohama brand	149FR	Apr. 21, 1969
Yokohama Rubber Co. Ltd. Hiratsuka Plant P.O. Box 20 Hiratsuka - Shi Kanagawa - Ken 254, Japan Agent: Yokohama Rubber Co. Suite Q 1325 Remington Road Schaumberg, Ill. 60195 USA	Series VN: VN-100, 150, 200, 250, 300, 350, 400 Series EP: EP-100. 150, 200, 250, 300, 350, 400 Series ST: ST-370, 2500, 3200	553	Feb. 10, 1984
	ST-400, 500, 600, 630, 700, 800, 900, 1000, 1100, 1200, 1250, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 2300, 2400, 2600, 2700, 2800, 2900, 3000, 3100, 3150	553-2	Sept. 7, 1984
	Type EP-450 Conveyor Belt	553-3	Dec. 3, 1984

CATEGORY 5 - FLAMEPROOF DIESEL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Beaver Construction Group 1800 Hymus Boulevard Dorval, Quebec. H9P 2N6	A basic rubber-tired vehicle chassis for mobile underground diesel-powered equipment "Timberjack" type M50 or M70 and completed assemblies using the above. Each powered by a "Caterpillar" 3304 PCNA Diesel Engine	432	Sept. 15, 1982
	Erector - Transporter Powered by a Caterpillar 3304 PCNA Diesel Engine (this is a one-of-a-kind)	522	Aug. 11, 1983
Caterpillar Tractor Co. 100 North East Adams St. Peoria, Ill. 61629 USA	Diesel Engine, Model 3304 Precombustion chamber, naturally aspirated	542	June 5, 1984
Eimco Tunnelling and Mining Machinery Division Envirotech Corp 537 West Sixth South Salt Lake City, Utah 84110	Model 915E LHD with caterpillar engine - model 3306-NA	267DA	Feb. 21, 1975
	Truck model 975	278DA	Nov. 14, 1975
	Model 913 LHD	280DA	Nov. 3, 1976
	Revised model 913 LHD	280-1	Sept. 12, 1977
Eimco (Great Britain) Ltd. Earlsway, Team Valley Gateshead, England	Load-Haul-Dump vehicle Model 913 Using MWM D916-6 Diesel Engine	408	Dec. 16, 1981

CATEGORY 5 - FLAMEPROOF DIESEL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Eimco Mining Machinery International, Team Valley, Gateshead England Canadian Agent: Wajax Industries Ltd., 1060 King's Road, Sydney, Nova Scotia. B1S 1G7	Flameproof Electric-Hydraulic Multipurpose Tracked Vehicles Models 612H and 625HD	475	Aug. 9, 1983
Gardner Engineering Co. 885 Eyremount Drive West Vancouver, B.C. V7S 2B2	Plate type exhaust flame trap	281	Mar. 19, 1976
Hunslay (Holdings) PLC Hunslay Engine Works 125 Jack Lane Leeds, LS10 1BT West Yorkshire, England	100 HP Mine Locomotives Powered by a 3304 PCNA diesel engine	561	March 28, 1984
Machinenfabrik Scharf GMBH Anlagen fur Die Transportationalisierung 47 - Hamm West b Postfach 704 West Germany	Monorail Locomotive DZ-662	331	Feb. 26, 1979
Schopf Maschinenbau GMBH Stuttgart, West Germany Canadian Agent: Dux Machinery Corp., 615-621 Lavoisier, P.O. Box 80, Repentigny, (Montreal) Quebec. J6A 5H7	Model L112, Underground Load-Haul Dump Vehicle	412	June 17, 1983

CATEGORY 5 - FLAMEPROOF DIESEL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Wagner Mining Equipment Inc. P.O. Box 20307 Portland, Oregon	"Teletram" model HMTT-410(s)	286	May 28, 1976
	"Wagner Scooptram" - type ST-5A (S) Caterpillar engine model 3306N	240DA 250S	May 7, 1973 Oct. 1, 1974

CATEGORY 6 - NON-FLAMEPROOF DIESEL EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Mercedes Benz Canadian Agent: J.I. Case Company, 2345 Stanfield Rd. Suite 200 Mississauga, Ontario. L4Y 3Y3	"Unimog" truck	282	Feb. 10, 1976
Toyota Motor Corporation Toyota City Aichi-Ken, Japan	Model BJ60 4 wheel drive diesel land cruiser	536	Dec. 30, 1983

CATEGORY 7 - FIRE-RESISTANT ELECTRIC CABLES

Holder of Certificate	Description	Certificate No	Effective Date
Anaconda - Ericsson Inc., Wire and Cable Division, Greenwich, Conn., 06830 Canadian Agent: Oak Supply Inc., P.O. Box 512 Markham, Ontario. L3P 3R1	"Securityflex" Type SHD-GC 2 KV, #8 AWG to 500 MCM 5 KV, #6 AWG to 500 MCM 8 KV, #4 AWG to 500 MCM 15 KV, #2 AWG to 4/0 25 KV, #1 AWG to 4/0 Type SHD plus GC 2 KV, #8 to 500 MCM	460	Sept. 20, 1982
Anixter Canada Inc., 2975 Victoria St. Lachine, Québec. H8S 1Z4	75 OHM RG 11A/U with Galvanized Steel Interlocking Armout and PVC Outer Jacket	555-1	Mar. 8, 1985
Canada Wire and Cable Ltd., 22 Commercial St., Toronto, Ontario. M4G 1Z4	Portable Mining Cables type G, sizes 0-4 600 V 2 KV shuttle car cable, size 2, type SHD-GC, sizes 2/0 to 3, 5 to 15 KV	314	Oct. 26, 1977
	Mine Power Cable type MP GC sizes 8 AWG to 1000 MCM inclusive rated at 5 to 25 KV	314-1	July 17, 1981
	Teck 90 and Teck 90 (-40C) Type Firex*II Single or Multi-conductor Sizes 14 AWG to 2000 MCM rated 600 to 5000 VAC (max.)	596	Feb. 5, 1985
Canada Wire and Cable Ltd. 1397 Buffalo Place, Winnipeg, Manitoba. R3T 1L6	Communication cables, 2 to 100 pairs, 19 AWG	508	July 19, 1983

CATEGORY 7 - FIRE-RESISTANT ELECTRIC CABLES

Holder of Certificate	Description	Certificate No	Effective Date
Carol Cable West Ltd., 2665 East Del-Amo Boulevard California 90221 Canadian Agent: 364 Signet Drive, Weston, Ontario. M9L 1V3	Portable Trailing Cables Type SHD-GC, rated 2, 5, 8 & 15 KV 6 AWG to 500 MCM inclusive Types G and GGC, rated at 2 KV 8 AWG to 500 MCM inclusive	445	June 15, 1982
Carol Cable Co. 1900 North Fifth Ave., Rivergrove, Ill. 60171 Canadian Agent: Carol Cable Co., 364 Signit Drive, Weston, Ontario. M9L 1V3	Mine power feeder cable sizes 6 AWG to 250 MCM incl., 8 KV, 3 conductor	517	July 15, 1983
Colflex Cables Division of Communication and Control Engineering Ltd. Calverton, England Canadian Agent: Hawker Siddeley Diesels and Electrics Ltd. 355 Wyecroft Rd. Oakville, Ontario. L6K 2H2	Control Cable	309	Oct. 5, 1977
	Armoured control cable	309-1	July 12, 1981
	Mine cable, Cat. No. 3356, 3 conductor, 10 AWG	309-2	July 18, 1983
Dow Corning Canada Inc., 6747 Campobello Rd., Mississauga, Ontario. L5N 2M1	Cable Sealing Compound "Dow Corning 3-6548 RTV Foam"	519	July 19, 1983
Hawker Siddeley Diesels and Electrics Ltd. 355 Wyecroft Rd. Oakville, Ontario. L6K 2H2	Portable mining cable types 61 and 62	327	June 21, 1978
	Portable mining cable type 63064	327-1	June 4, 1979

CATEGORY 7 - FIRE-RESISTANT ELECTRIC CABLES

Holder of Certificate	Description	Certificate No	Effective Date
Phillips Cables Ltd. King Street West, Brockville, Ontario. K6V 5W4	Trailing cables type SHD-GC rated 2, 5, 8, 15, and 25 KV type G-GC rated at 2 KV, sizes 8 AWG to 500 MCM inclusive	400	Apr. 10, 1981
Phillips Cables Ltd. King Street West, Brockville, Ontario. K6V 5W4	Trailing cables type G-GC sizes 10 to 500 MCM inclusive, rated at 2 KV type SHD GC sizes 8 to 500 MCM inclusive, rated at 2 to 25 KV type 62 coal face lighting cable rated at 600 V	400-1	May 26, 1981
	"Wall face" cables sizes 8 AWG to 500 MCM, rated at 2 to 25 KV inclusive	400-2	July 17, 1981
	Type 61 and 63 coal face, lighting cable, 14 to 6 AWG inclusive	400-3	Sept. 25, 1981
	Control cables No. 60020, 2-Conductor, 10 AWG, 600 V, and No. 60024, 4-pair, 16 AWG	400-4	Oct. 14, 1982
	"Teck 90", sizes 14 AWG to 3000 MCM incl. 600 to 5000 V	400-5	Aug. 12, 1983
	"HV Teck" and "HV Teck (-40°C) 8 to 35 KV	400-6	Jan. 26, 1984

CATEGORY 7 - FIRE-RESISTANT ELECTRIC CABLES

Holder of Certificate	Description	Certificate No	Effective Date
Pirelli Cables Inc. 65 rue Richelieu, S-Jean-Sur-Richelieu Québec. J3B 6X2	Mining cables - types SHD-GC and SHD, sizes 6 to 500 MCM, 25,000 V or less. Type SHC-GC sizes 6 to 500 MCM, 2000 V or less. Type G and G-GC, sizes 8 to 500 MCM, 2000 V or less. Type G, sizes 6 AWG to 4/0, 2001 to 5000 V	392	Jan. 26, 1981
	Mining cables - type 7, #6 AWG to 500 MCM, 2000 V	392-1	Sept. 24, 1981
	Mining cables - "Voltalene Verlok" #6 AWG to 750 MCM inclusive, 15,000 V or less	392-2	Dec. 10, 1981
	Mining cables - Interlocked Armoured Teck cable No. 6 AWG to 750 MCM incl. 15,000 V or less, 3 conductor	392-3	July 15, 1983
Rome Cable Corp. 421 Ridge St., Rome, N.Y. 13440	Electric Trailing Cable - Type G-GC Sizes No. 6 AWG to 500 MCM Inclusive, 2 KV	507	Apr. 13, 1983
Trans Canada Electro Ltd. 373 Mondor St. St. Hyacinthe, Quebec. J2S 5A6	Shielded communication cables overall PVC jacketed, 2 conductor No. AWG, and 3 conductor No. 16 AWG Types 644-216 and 644-316 respectively	543	Nov. 21, 1983
	Multi-Pair Mine Communications cable Type IW 25P19	548	Dec. 18, 1983

CATEGORY 8 - FIRE-RESISTANT AND ANTI-STATIC DUCTS AND PIPES

Holder of Certificate	Description	Certificate No	Effective Date
Ameron Corporation Corrosion Resistant Piping Division, 595 West Lambert Road, Brea, California 92621 Canadian Agent: PSC Industries Ltd., 76 Kingston Road West, Pickering Village, Ontario. L1V 124	Plastic pipe, "Bonstrand" 1600 series 10 in. diameter	361	Feb. 27, 1980
Commercial Plastics Special Products Division Cowley Road Blyth, England NE2Y STE Canadian Agent: Martin Equipment Ltd. P.O. Box 968 Sydney, N.S. B1P 6J4	Flexible duct material - type D316 - "Safesheet"	394	Feb. 18, 1981
Dundee Brattice Cloth and Waterproofing Co. Ltd., Meadow House, 64 Reform St., Dundee, DD1 9DP, Scotland Canadian Agent: Martin Equipment Ltd., P.O. Box 2600, Sydney, N.S. B1P 6R8	Flexible Duct Material "DUNDEE" P.20	527	Aug. 16, 1983

CATEGORY 8 - FIRE-RESISTANT AND ANTI-STATIC DUCTS AND PIPES

Holder of Certificate	Description	Certificate No	Effective Date
Dupont Canada Inc., P.O. Box 900, North Bay, Ontario. P1B 8K2	"Fabrene" RTPNN and RTENN, (for non-gassy mines only)	518	July 15, 1983
	"Fabrene" RTPEE (for non-gassy mines only)	533	Aug. 31, 1983
	Fabrene® RTEEE (for non-gassy mines only)	533-1	Jan. 4, 1985
Elreco Corp. 2000 Central Ave. Cincinnati, Ohio 45214	Trolley guard "Panthergard" 12 in. and 18 in.	393	Feb. 11, 1981
General Mining and Engineering Services Ltd. Portex House, Newburn Bridge Rd., Ryton Industrial Estate Blaydon Tyne and Wear, NE21 4TE England Canadian Agent: Martin Equipment Ltd., P.O. Box 1600, Sydney, N.S. B1P 6R5	Flexible Duct Material "General Mining 12F100S"	529	Aug. 19, 1983
	Flexible Duct Material "General Mining 12F100SVG"	529-1	Sept. 21, 1983
Maschinenfabrik Korfmann G.M.B.H. - Postfach 1749 5610 Witten, West Germany Canadian Agent: Noval Technologies Ltd. 1869 Upper Water Street Halifax, Nova Scotia B3J 1S9	Rigid plastic pipe "Wavin AS 100" 50, 75 and 90 mm diameter for methane drainage	422	Dec. 2, 1981

CATEGORY 8 - FIRE-RESISTANT AND ANTI-STATIC DUCTS AND PIPES

Holder of Certificate	Description	Certificate No	Effective Date
Peabody ABC Warsaw, Indiana Canadian Agent: ABC Manufacturers of Canada Ltd. 2401 Thayer Ave. Saskatoon, Sask. S7L 5Y1	Rigid fiberglass ventilating duct 30 in. diameter	329	July 14, 1978
Polymer International (N.S.) Ltd. P.O. Box 868 Truro, Nova Scotia B2N 5G6	Ventilating Duct Material "12 X 12 FR" For non-gassy mines only	437	May 3, 1982
Schauenburg Flexaduct Corp. 12A Buncher Industrial District P.O. Box 8 Leetsdale, PA. 15056	Rigid ventilating duct 30 in. diameter	330	July 14, 1978
Schauenburg Industries Ltd. 1904 Bond St. P.O. Box 261 North Bay, Ontario. P1B 8G8	Flexible ventilating duct type "V100S"	392	Jan. 21, 1981
	Rigid fiberglass mine ventilating ducting 12 to 60 in. in diameter	395	Feb. 9, 1981
	Rigid fiberglass mine ventilating duct type A.S.-8, 12 to 60 in. diameter	395-1	July 22, 1981
	Rigid fiberglass mine ventilation 12 in. diameter	395-2	Feb. 4, 1982

CATEGORY 8 - FIRE-RESISTANT AND ANTI-STATIC DUCTS AND PIPES

Holder of Certificate	Description	Certificate No	Effective Date
Stedfast Inc. 230 St. Charles Sud, Granby, Quebec J2G 8E9	Flexible ventilation duct material "Stedcover #199"	462	Sept. 17, 1982
Tom Roy Fibreglas Manufacturing RR No. 3 Athens, Ont. K0E 1B0	36" I.D. Round Rigid Ventilation Duct Type THM 36-0001 For non-gassy mines only	558	March 7, 1984
Twinpak Inc., 369 Elgin St., P.O. Box 1480, Brantford, Ontario. N3T 5V6 (formerly Consolidated- Bathurst Packaging Limited)	"Triflex Flamtard" A and B types fire-resistant fabrics For non-gassy mines only	285	Mar. 23, 1976
Vintex Inc. 1 Royce Ave., Brampton, Ontario. L6Y 1J4	Flexible mine duct material "Vintex" 1000/AS	430	Feb. 10, 1982
	"Vinstat" I	430-2	Apr. 1, 1985
	"Vintex" II	430-3	Apr. 15, 1985

CATEGORY 9 - COMBUSTIBLE GAS DETECTION EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
Bacharach Instrument Company Canadian Agent: Safety Supply Canada Ltd., 214 King St. East, Toronto, Ontario. M5A 1J8	Sensor Housing Model 23-7317 for 800 Series Combustible Gas Detection Systems	486	Jan. 21, 1983
Enmet Canada Ltd., 2600 Edenhurst Drive, Mississagua, Ontario. L5A 3Z8	Continuous Duty Stationary Combustible Gas Detection Instrument ENMET Type ISA-7H, with Type D1 5/6 Remote Detector Head	552	Jan. 25, 1984
General Monitors Inc. 3019 Enterprise St. Cost Mesa, Calfornia 92626	Machine mounted methane detector system model 420 D	366	July 17, 1980
J-Tec Associates Cedar Rapids, Iowa Canadian Agent: Energy Mines and Resources Mining Research Laboratories Calgary, Alberta.	Methane Monitoring Units Intended for connection to Data Acquisition Systems Type VM101B Serial Nos. C82.033, C82.028 C82.027, C82.026, C82.032	476	Dec. 7, 1982
Machinoexport USSR	Portable interferometer type gas detector	306	Aug. 15, 1977

CATEGORY 9 - COMBUSTIBLE GAS DETECTION EQUIPMENT

Holder of Certificate	Description	Certificate No	Effective Date
National Mine Service Co. Industrial Safety Division Oakdale, PA 15071 Canadian Agent: Safety Supply Canada Ltd. 214 King St. East, Toronto, Ontario. M5A 1J8	Model MX240 Hand-Held Combination Oxygen/Methane Gase Indicator	503	Apr. 7, 1983
	Intermittent Duty Portable Methane Gas Detection Instrument, Model CD210	541	Oct. 14, 1983
Oldham Batteries Ltd. Denton, Manchester, England Canadian Agent: Martin Equipment Ltd. P.O. Box 1600 Sydney, N.S. B1P 6R8	Miner's Cap Lamp with built-in combustible gas detection instrument Model M with battery Model T2	572	July 19, 1984
Sieger (J & S) Ltd. Poole, Dorset, England Canadian Agent: Minelec Ltd. 100-10 the East Mall, Toronto, Ontario. M8S 5X2	SM1 methane monitoring system comprising, indicating unit, BAT. 1 battery module, recorder module and detector head	431	Mar. 11, 1982

CATEGORY 10 - FIRE-RESISTANT HYDRAULIC FLUIDS

Holder of Certificate	Description	Certificate No	Effective Date
BASF Wyandotte Corporation 100 Cherry Hill Road, P.O. Box 181, Parsippany, New Jersey 07054	Plurasafe® P1210	60N	Mar. 25, 1985
CIBA - GEIGY Plastics and Additives Division Manchester, England Canadian Agent: CIBA - GEIGY Canada Ltd. 858 York Mills Road, Don Mills, Ontario. M3B 3A8	Synthetic type "Reolube" HYD 46	412	July 23, 1981
Century Oils Ltd. Hanley, Stoke-on-Trent P.O. Box 2 England ST1 5HV Canadian Agent: Century/Oils (Canada) Inc. 19629-99A Ave., Langley, B.C. V3A 4P8	Water-in-oil "Aquacent Light" "Aquacent Heavy" water/glycol Century F.R.X. medium	321	Feb. 15, 1978
	Synthetic type "Fosfocent" 430 and "Fosfocent" 600	321-1	Dec. 9, 1980
	Synthetic type "Phosphate Ester H.T.P" and "Fosfocent 200"	321-2	Feb. 8, 1982
	Water-in-oil "Aquacent Light" and "Aquacent Heavy"	482	Dec. 21, 1982
	Water Glycol Type "Super Glycol"	321-3	July 7, 1983
	Water Glycol Type "FRX Special Light" and "FRX Special Medium"	482-1	July 7, 1983

CATEGORY 10 - FIRE-RESISTANT HYDRAULIC FLUIDS

Holder of Certificate	Description	Certificate No	Effective Date
Citgo Petroleum Corp. Box 3758 Tulsa, Oklahoma 74102 USA Canadian Agent: Husco Industrial (B.C.) Ltd. Unit No. 407 5940 No. 6 Road Vancouver, B.C. V6V 1Z1	Water Glycol type CITGO GLYCOL FR-40XD	590	Nov. 30, 1984
D.A. Stuart Inc., 43 Upton Road, P.O. Box 430, Scarborough, Ontario. M1K 5C3	"DASCO" FR-151 and "DASCO" FR-201	532	Aug. 31, 1983
	"DASCO" FR-151 and "DASCO" FR-201	532-1	Aug. 15, 1984
E.F. Houghton Canada Inc. 100 Symes Road, P.O. Box 113, Stn. "D" Toronto, Ontario. M6P 3J3	Phosphate Ester Type "Houghto Safe" 1120 and water/oil emulsion "Houghto-Safe" 5020 and Houghto-Safe" 5047F	322	Feb. 15, 1978
	Phosphate Ester "Houghto-Safe" 1110	322-1	June 29, 1979
	Water-Glycol "Houghto-Safe" 419, 520 and 620	322-2	Jan. 22, 1982
Forsythe Lubrication Associates Ltd. 120 Chatham St. Hamilton, Ontario. L8P 2B5	Water Glycol WG200R	423	Dec. 9, 1981

CATEGORY 10 - FIRE-RESISTANT HYDRAULIC FLUIDS

Holder of Certificate	Description	Certificate No	Effective Date
Gulf Canada Ltd. 2489 N. Sheridan Way Sheridan Park, Ontario L5K 1A8	Water-In-Oil, FRF-1 and FRF-2	389	June 10, 1981
H.L. Blanchford Ltd. 2323 Royal Windsor Dr. Mississauga, Ontario. L5J 1K5	"Quaker Quintolubric", water-in-oil 958-30 and 958-50	368	July 17, 1980
Imperial Oil Ltd. 55 St. Clair Ave. W., Toronto, Ontario. M5W 2J8	Water-in-oil, "Iogard" E68 and E100 Water Glycol, "Iogard" G32 and G40 Phosphate Ester "Iogard" P41	441	June 2, 1982
Mobile Oil Corp. 3225 Gallows Road, Fairfax, Virginia 22037 Canadian Agent: Imperial Oil Ltd. 55 St. Clair Ave. W., Toronto, Ontario. M5W 2J8	Water-in-oil, "Pyrogard D"	360	Feb. 7, 1980
Petro-Canada Products Inc. 240 Duncan Mill Road Don Mills, Ontario. M3B 3B2	Synthetic type "BP Energol" SF-D 46	429	Feb. 8, 1982
	Synthetic Type "Hydroflo" FR-D-46	429-1	Aug 14, 1984
	Water in oil "Hydroflow" FR-B-13	589	Nov. 29, 1984

CATEGORY 10 - FIRE-RESISTANT HYDRAULIC FLUIDS

Holder of Certificate	Description	Certificate No	Effective Date
Shell Canada Ltd. P.O. Box 2100, Oakville, Ontario. L6J 5C7	Water-in-oil, "Irus" B-100	354	Nov. 15, 1979
	Water-in-oil, "Irus" BLT 100	354-1	Feb. 12, 1982
	Water-in-oil, "CLX 1172"	514	June 14, 1983
	Shell Water Glycol F.R. No. 46 and Shell Water Glycol No. 68	535	Sept. 21, 1983
	IRUS BLT 100 (Invert Emulsion)	536	Sept. 21, 1983
Surbond Lubricants Ltd. 89 Nipissing Road Milton, Ontario. L9T 1R3	Water-in-oil, "Sursafe" IE-30 and IE-45 Water/Glycol, "Sursafe" 160 and 200 Phosphate Ester "Centenalube" 2000	442	June 2, 1982
Ultra Glide Ltd. Pugeston by Montrose Angus, Scotland Canadian Agent: Harvy Oilfield Supplies P.O. Box 2280 Station "C" St. John's, Newfoundland A1C 6E6	"Ultraglyde Goldline - Water/Glycol	404	June 3, 1981
Union Carbide Canada Ltd. 10555 Metropolitan Blvd. E. P.O. Box 700 Point-Aux-Trembles Montreal, Quebec. H1B 5K8	Water/Glycol "Uncon Hydrolube" 461 and 681	400-2	June 10, 1981
	Water/Glycol "Uncon Hydrolube" FI-100-25 and FI-100-35	446	June 7, 1982
	Water/Glycol "Ucon Hydrolube" 221	406-1	Dec. 22, 1983
	Water-Glycol "Ucon Hydrolube" 321	406-2	Mar. 29, 1984

CATEGORY 11 - FLAMEPROOF AND INTRINSICALLY SAFE REPAIR FACILITIES

Holder of Certificate	Description	Certificate No	Effective Date
Westar Mining Ltd. P.O. Box 2000 Sparwood, B.C. V0B 2G0	Component Repair Facility	383-1	May 26, 1981
Cape Breton Development Corp. P.O. Box 2500, Glace Bay, N.S. B1P 6K9	Central Shops	426	Jan. 7, 1982

CATEGORY 12 - PERMISSIBLE BLASTING DEVICES

Holder of Certificate	Description	Certificate No	Effective Date
Canadian Industries Limited (C-I-L) P.O. Box 200, Station "A" Willowdale, Ontario M2N 6H2	Blasting Galvanometer - Model 2	461	Jan. 28, 1983
	A Ten Shot Blasting Machine Project No. 158	491	Jan. 28, 1983

CATEGORY 13 - MINERS' CAP LAMPS NON-INTRINSICALLY SAFE

Holder of Certificate	Description	Certificate No	Effective Date
Concordia Elektrizitaets Aktien Gesellschaft Dortmund, West Germany Canadian Agent: Hansa Mining Equipment Ltd. Sparwood, B.C.	Miners cap lamp - type MLC 5.1	362	Mar. 4, 1980
Koehler Manufacturing Co. Marlborough, Mass. 01752	Miners cap lamps - models 282-14 5100 and 5200	61L 97S	Apr. 6, 1965 Oct. 10, 1967
	Miners cap lamp - model 5800	372	Dec. 2, 1980
	Miners cap lamp - model 6100	372-1	Dec. 5, 1980
Martin Equipment P.O. Box 968 Sydney, N.S. B1P 6J4	"Oldham" cap lamp	339	Aug. 25, 1979
Mas Canada Ltd. 148 Norfinch Dr. North York, Ontario. M3N 1X3 Manufactured by: MSA Inc. 600 Penn Center Boulevard Pittsburgh, PA 15235	MSA "Minespot" electric cap lamp ML-1	39L	Sept. 18, 1963
	MSA "Minespot" electric cap lamp ML-2	93L	Feb. 7, 1968
	MSA "Minespot" model ML-200 MSA Part No. 475970	595 595	Jan. 18, 1985

APPENDIX

This appendix lists products and materials which are no longer in production, and have been deleted from the list of certified products. Although these products are no longer in production, the applicable EMR certifications remain valid for such items currently in use, or in storage to be used at some future date. However, no new production is permitted of items listed in this appendix without prior application being made to EMR. Manufacturers of the products listed herein have provided written statements to EMR to the effect that no new production of such products will occur.

CATEGORY 1 - SPECIAL CERTIFICATES - (DELISTED CERTIFICATES)

Holder of Certificate	Description	Certificate No	Effective Date
Coleman Collieries Ltd. Coleman, Alberta	Bus bar adaptor assembly	287	June 22, 1976
David Minerals Ltd. Coal Division, P.O. Box 330 Chetwynd, B.C. V0C 1J0 Modified by: Curtis Hoover (B.C.) Ltd. Fort St. John, B.C. Manufactured by: Noyes Bros. PTY. Ltd. New South Wales, Australia	"Rhino" Diesel Transporter, Mark VII, Model 17CA	235-1	July 19, 1979
Modified by: Coalition Mining Co. Ltd. Manufactured by: Noyes Bros. PTY. Ltd. New South Wales, Australia	10 Ton Hydro Car Type HE-10-50 Serial No. 29L	249A	Oct. 29, 1973

CATEGORY 2 - FLAMEPROOF ELECTRICAL EQUIPMENT - (DELISTED CERTIFICATES)

Cape Breton Development P.O. Box 2500 Sydney, Nova Scotia. B1P 6K9	Motor conduit box	413	Aug. 31, 1981
Electric Apparatus Co. 409 North Roosevelt St. Howell Michigan 48843	Mining motors M-320-7 and M-320-8	325	May 17, 1978
	Mining Motors - 35 HP or less	325-1	Oct. 19, 1978
Joy Manufacturing Company P.O. Box 100 Cambridge, Ontario. N1R 5T4	Safety circuit centre 546272-2	231FP	Feb. 8, 1973
	Chain conveyor unit 714061	265-A	Dec. 19, 1974
	Bus bar adaptors 3741191-6 3741191-7 3741191-8	293	Jan. 11, 1977

Holder of Certificate (DELISTED CERTIFICATES)	Description	Certificate No	Effective Date
Joy Manufacturing Company P.O. Box 100, Cambridge, Ontario. N1R 5T4	Conveyor controls 546887 - CD-3342	210-A	Jan. 31, 1972
	Gang box 469043	224FP	Sept. 28, 1972
	569043-1	224-1	Apr. 27, 1978
	569043-2	224-2	Apr. 27, 1978
	Safety circuit centre 546 3301-1	225-FP	Oct. 4, 1972
	Controller 569044	226FP	Oct. 4, 1972
	Safety circuit centre 546272-1	227FP	Oct. 4, 1972
	546272-5	227-1	Apr. 27, 1978
	546272-6	227-2	Apr. 27, 1978
	Belt conveyor part No. 2866	63A	June 24, 1965
	Controller for chain conveyor drive unit	67-A	Oct. 26, 1965
	CD-2889	115-S	Apr. 5, 1968
	CD-3940	189-S	Apr. 19, 1971
	CD-3935	190-S	Apr. 21, 1971
	714061	226-S	Dec. 19, 1974
	Controller CD-4860	67-4	Jan. 17, 1978
	Controller CD-2977	68-4	Dec. 9, 1965
	CD-2988	116-S	Apr. 25, 1968
	CD-3004	186-S	Apr. 5, 1971
	Boom car loader controller	76-A	May 26, 1966
	CD-3104, CD-3030	187-S	Apr. 5, 1971
	Controller	82-A	Jan. 27, 1967
	CD-3271	109-S	Jan. 25, 1968
	CD-3342	162-S	Mar. 31, 1970
	CD-3419	185-S	Apr. 2, 1971

Holder of Certificate (DELISTED CERTIFICATES)	Description	Certificate No	Effective Date
Joy Manufacturing Company P.O. Box 100, Cambridge, Ontario. N1R 5T4	Controller CD-3270	83-A	Jan. 27, 1967
	CD-3342	83A-2	June 28, 1967
	CD-3269	110-S	Jan. 25, 1968
	CD-3452	114-S	Mar. 28, 1968
	CD-3622	184-S	Apr. 2, 1971
	Motor starter CD-3654, CD2909, CD-2589	88FP	May 2, 1978
	Bridge conveyor CD-3413	89A	May 15, 1967
	Controller CD-3556	90-A	Sept. 29, 1967
	CD-4786	90A-1	June 15, 1970
		195-S	May 21, 1971
	Safety circuit centre 546273, 546273-1 546274, 5463303589 546335, 54634835 546514, 546515 546670	94FP	Sept. 28, 1967
		140-S	Sept. 21, 1968
		145-S	Jan. 21, 1969
		163-S	Apr. 14, 1970
		169-S	Apr. 15, 1970
		180-S	Nov. 24, 1970
	Safety circuit centre 546273-3	94-3	Dec. 13, 1976
	546272-4	94-4	May 14, 1976
	546257-1	94-5	Jan. 11, 1977
	Controller 546272	95FP	Oct. 2, 1967
		181-S	Nov. 27, 1970
	Safety circuit centre 546670-1	95-3	May 14, 1976
	Controller CD-3589 CD-3593, CD-3635	96FP	Oct. 2, 1967
		188-S	Apr. 8, 1971

Holder of Certificate (DELISTED CERTIFICATES)	Description	Certificate No	Effective Date
Joy Manufacturing Company P.O. Box 100, Cambridge, Ontario. N1R 5T4	Controller CD-3765, CD-3984 CD-3770	98-A 120-S 127-S	Oct. 12, 1967 July 16, 1968 May 10, 1968
Lee Norse Company P.O. Box 2863 Pittsburgh, PA. 15230	Continuous coal mining machines models HH486-7-4E and HH486-7-4EE	294-1	Mar. 6, 1978
Company name changed to: Ingersoll-Rand Company, Mining Machinery Group, 4201 Lee Highway Bristol, Virginia 24201	Continuous coal mining machine model HH106-2EE-60	294	Jan. 25, 1977
	Continuous coal mining machines models HH486-9-SE and HH486-9-SEE	294-2	July 9, 1980
Radmark Engineering Co. Division of Rader Pneumatics Ltd., Suite 102-245 Fell Street, North Vancouver, B.C.	"Radmark" backfill system	254A	Nov. 14, 1973
Robert Begg Ltd., P.O. Box 780 Thornhill, Ontario. L3T 4A4	"Voith turbo coupling" - model 487 SVTL II with passive switching devices for use with intrinsically safe circuits	388	Dec. 24, 1980
Westinghouse Canada Inc. Box 510 Hamilton, Ontario. L8N 3K2	20 HP motor, 575 V, 1775 rpm frame 256T	147FP 178S	Oct. 6, 1970
	30 HP 575 V type HSB motor frame 286 with bolted connector	147FP 202S	July 19, 1971
Westinghouse Canada Inc. Box 510 Hamilton, Ontario. L8N 3K2	10 HP, 675 V, 705 rpm motor frame 286T, with plug and socket	147FP	Mar. 6, 1972
	15 HP, 575 V, 695 rpm motor frame 324T, with plug and socket	147FP 220S	June 5, 1972

Holder of Certificate (DELISTED CERTIFICATES)	Description	Certificate No	Effective Date
Westinghouse Canada Inc. Box 510 Hamilton, Ontario. L8N 3K2	20 HP, induction motor 1755 rpm frame 256TD 575 V Serial No. 1-19S3239 Serial No. 2-19S35239	147FP 221S	June 5, 1972
	15 HP, 575 V, 1760 rpm induction motor frame 254T with plug and socket	147FP 238S	May 8, 1973
	25 HP, 575 V, 1770 rpm induction motor frame 284T with plug and socket	147FP 239S	May 8, 1973
	125 HP, 575 V, 3560 rpm induction motor, frame 445 TSZ, with plug and socket	147FP 251S	Aug. 31, 1973
	140 HP, 575 V, 1770 rpm induction motor, frame 447 TY serial No. 1 19S8130 with plug and socket	147FP 255S	Nov. 21, 1973
	50 HP, 575 V, 880 rpm induction motor, frame 404T with plug and socket	147FP 256S	Nov. 29, 1973
	10 HP, 575 V, 1765 rpm induction motor, frame 215T with cable entry gland	147FP 257S	Jan. 5, 1974
	75 HP, 575 V, 1775 rpm induction motor, frame 365TCZ with cable entry gland	147FP 258S	Apr. 22, 1974

Holder of Certificate (DELISTED CERTIFICATES)	Description	Certificate No	Effective Date
Westinghouse Canada Inc. P.O. Box 510 Hamilton, Ontario. L8N 3K2	30 HP, 575 V, 1800 rpm induction motors, frame 286T serial Nos. 1-28S4190, 2-28S4190 3-28S4190, 4-28S4190 with cable entry gland	147FP 2625	May 16, 1974
	10 HP, 575 V, 1800 rpm induction motor, frame 215T serial Nos. 1-28S266, and 2-28S2662	147FP 263S	Aug. 20, 1974
	75 HP, 575 V, 1800 rpm induction motor, frame 365TSCZ, Serial No. 1-19S6216	147FP 270S	Apr. 21, 1975
	Type HSA motors with packing gland connectors	147-30	Mar. 19, 1979
	20 HP motor	147-29	Nov. 8, 1979
Zaklady, Elektro-Maszynowe CELMA, Cieszyn Cieszyn, Poland Export Agency: Kopex, 40-952 Katowice Grabowa 1, Poland	Electric motors types SPSE and SDKSE, frames 160, 180, 200, 225, 250, 280 and 315, type SGF frame 200, 225, 250, 280 and 315 - 1000 V or less, 3 phase, 60 Hz, 132 KW or less	387	Dec. 12, 1980

CATEGORY 3 - INTRINSICALLY SAFE ELECTRICAL EQUIPMENT - (DELISTED CERTIFICATES)

Holder of Certificate (DELISTED CERTIFICATES)	Description	Certificate No	Effective Date
Bendix Environmental and Process Instrument Division 12345 Starkey Rd. 357-1 Largo, Florida 33540	Air sampling pump - model BDX 44, portable, 3.6 V	357	Jan. 29, 1980
	Air sampling pumps - models BDX 55 with 56 portable battery powered 4.8 V maximum	357-1	Jan. 27, 1981
Bruel & Kjaer Canada Ltd. 90 Leacock Road Pointe Claire, Quebec. H9R 1H1	Sampling pump - Model BDL 60	410	June 26, 1981
	Noise Dosimeter type 4431	452	Aug. 18, 1982
Carleton Instruments Ltd. 2414 Holly Lane Ottawa, Ontario. K1V 7P1	Dust Sampler - "CAMPEDS" MK II	297	Mar. 29, 1977
Energetics Science Co. Ltd. A division of Becton Dickinson and Company Hawthorne, New York 10532	Carbon monoxide area monitor and respiratory monitor - models 4150 and 4155, and hydrogen sulphide area monitor model 4460 collectively known as "Ecolyzers"	399	Apr. 3, 1981
Hoskin Scientific Ltd. GCA Division Burlington Road Bedford, Mass. 01730	Dust monitors models RDM101 and RDM201 portable - battery operated	365	July 14, 1980
Kopex 40-952 Katowice, Grabowa 1, Poland.	Borehole "Penetrometer" Type HO - 71A	363	Mar. 3, 1980

Holder of Certificate (DELISTED CERTIFICATES)	Description	Certificate No	Effective Date
McPhar Mine Systems Inc. 55 Tempo Ave. Willowdale, Ontario. M2H 2R9	Rock Stress Monitor type RM1	453	Aug. 23, 1982
	Battery operated two channel strip chart recorder - Type LM23	493	May 30, 1983
Pyott Boone Inc. P.O. Box 809 Tazewell, VA. Willowdale, Ontario. M2H 2C9	Mine page telephone model 304C	291	Oct. 1, 1976
Walter Mold Co. 34 Birch Road Natick, Mass.	Siesmetron model 2A-4	34IS-279S	May 5, 1975

CATEGORY 4 - FIRE-RESISTANT AND ANTI-STATIC* CONVEYOR BELTING - (DELISTED CERTIFICATES)

Apex Belting Ply Ltd. 268 - 280 Geelong Road West Footscray, 3012 Victoria, Australia	"Apex FRAS" neoprene - reinforced with KN3 fabric	165FR*	Apr. 16, 1970
	"Apex 3300 Blue" solid woven carcass PVC FRAS	232FR*	Feb. 26, 1973
	"Apex 3500 Blue" solid woven carcass PVC FRAS	233FR*	Feb. 26, 1973
Dunlop Ltd. P.O. Box 7 Liverpool, England L24 1UY	"Dunlop" NN-90 P.V.C. 4 ply nylon duck	159FR	Feb. 4, 1970
Fenner & Co. Ltd. (J.H) Hull, England Canadian Agent: Wajax Industries Ltd. 3280 Wharton Way Mississauga, Ontario. L4X 2C5	"Vinyplast" 630S* types 400S, 500S 900S, 1000S, 1250S, 1600S, 1750S, and 2000S	341	May 8, 1979
	"Fenplast" FRSR 2240 to 12,000 incl.	292	Dec. 1, 1976

Holder of Certificate (DELISTED CERTIFICATES)	Description	Certificate No	Effective Date
Goodrich (B.F.) Canada Inc. 409 Weber Street West Kitchener, Ontario. N2G 4J5	"Koroseal Nyloc" grade 450	307	Sept. 12, 1977
	"Koroseal Nyloc" grade 350	307-1	Feb. 18, 1982
Mitsuboshi Belting Ltd., 4-Chrome, Hamazoe - DORI NATA-KU, Kobe, Japan Canadian Agent: Mitsubishi Canada Ltd. P.O. Nox 17, Commerce Court Postal Station Toronto, Ontario. M5L 1A5	VFN-260 Neoprene (7 ply)	105FR	Jan. 22, 1968
	St-1600 Steel Cord	122 FR	June 14, 1968
	"Start" brand	146-S	Feb. 20, 1969
	"Start" FR-S	289	Aug. 26, 1976
Tokai Rubber Industries Ltd. Komaki, Japan Canadian Agent: Sumitomo Shoji Canada Ltd. 116, 510 West Hastings St. Vancouver, B.C.	"Safe" brand (4 ply)	84FR	Feb. 24, 1967
	"Safe" brand (4 ply variation)	91FR	May 15, 1967
	"Safe" brand (4 ply V388)	103FR	Dec. 5, 1967
	"Safe" brand (3 ply V415)	128FR	July 16, 1968
	"Safe" brand (4 ply V415)	138S	Oct. 21, 1968
	"Safe" brand (special steel cord St-4450)	139FR	Oct. 22, 1968
	"Safe" brand FRT-3200	288	Aug. 26, 1976

CATEGORY 8 - FIRE-RESISTANT AND ANTI-STATIC DUCTS AND PIPES - (DELISTED CERTIFICATES)

Chimo Production Ltd. P.O. Box 231 1801 8th St Nisku, Alberta. T0C 2G0	Material "Vibrathane" B601 For water service only in coal mines	391	Jan. 21, 1981
CIBA-GEIGY Inc., Burkburnett, Texas Canadian Agent: CIBA-GEIGY Canada Ltd., 820 26th Street N.E., Calgary, Alberta. T2A 2M4	Rigid Fiberglass-Epoxy Pipe	479	

Holder of Certificate (DELISTED CERTIFICATES)	Description	Certificate No	Effective Date
Nelson Machinery Co. Ltd. 1255 Welch Street North Vancouver, B.C. V7P 1B4	Rigid ventilating duct 10 in. diameter	332	Oct. 13, 1978
Vintex Inc. 1 Royce Ave., Brampton, Ontario. L6Y 1J4	Flexible mine duct material "Vinstat 3000"	430-1	May 3, 1982

CATEGORY 9 - COMBUSTIBLE GAS DETECTION EQUIPMENT - (DELISTED CERTIFICATES)

Mine Gas Monitors Inc. P.O. Box 1361 Princeton, West VA. Manufactured by: KF Industries Inc. 230 W. Dauphin St. Philadelphia, PA. 19133	Portable methane detector model 100	296	Feb. 7, 1977